Troubleshooting

Symptom	Troubleshooting Steps
The PoE Injector does not power on	**1.** Verify the AC power adapter and cord is not frayed, broken or damaged in any way. **2.** Verify the voltage at the wall outlet is between 100 and 240V AC. **3.** Remove and re-apply power to the device.
The powered device does not operate	**1.** Verify that the PoE Injector detects a device plugged into the DATA & POWER OUT port. **2.** Verify that the device you are attempting to power is designed for operation via PoE. **3.** Verify that you are using standard Category 5/5e/6, straight-wired cable, with four pairs, that is undamaged. **4.** Verify that the Ethernet cable being used is not wired for cross-over operation. **5.** If using an external power splitter, replace it with another splitter you know to be functional. **6.** Remove and reinsert the Ethernet cables. **7.** Attempt to use another GPI-232 unit to power the device. If it becomes operational, the first unit is likely damaged or faulty. **8.** Verify that there are no shorts over any of the cables or RJ45 connectors.
The powered devices operates, but there is no data connection	**1.** If using an external power splitter, replace it with another power splitter you know to be functional. **2.** Verify that for this link, you are using standard UTP/UTF Category 5 straight cable with four pairs. **3.** Verify that the length of the Ethernet cable being used is less than 100m (330ft) in length. **4.** Attempt to use another GPI-232 unit to operate the device. If a data connection is successful, the first unit is likely damaged or faulty.

The following Fortinet web pages provide information and resources for your Fortinet product:

Customer Service & Support:	https://support.fortinet.com
Technical Documentation:	http://docs.fortinet.com
Knowledge Base:	http://kb.fortinet.com
Training Services:	http://training.fortinet.com
End User License Agreement:	http://docs.fortinet.com/eula/EULA.pdf

Comments on Technical Documentation
Please report errors or omissions to: techdoc@fortinet.com.

Safety Information

The GPI-232 should be connected to PoE networks only.

Ensure only qualified personnel install or remove the GPI-232.

The GPI-232 DATA IN and DATA & POWER OUT ports are shielded RJ45 data sockets. They cannot be used as Plain Old Telephone Service (POTS) telephone sockets. Only RJ45 data connectors can be connected to these sockets.

- The equipment is only intended for installation in a Restricted Access Location.
- All wiring and connections shall be in accordance with NFPA 70 (NEC)
- This product is fitted with a NEMA 5-15P plug for connection to the branch circuit. If other attachment methods are required, please reference local codes and requirements for proper connection to the branch circuit.
- This product is not intended to become a permanent part of the building structure.
- Power supply cord must not be attached to the building surface, nor run through walls, ceilings, floors and similar openings in the building structure.
- Measures must be taken to prevent physical damage to the power supply cord, including proper routing.

WARNINGS!

- The GPI-232 relies on your building's installation for short-circuit protection. Ensure that a fuse or circuit breaker rated for no more than 120V AC, 3A (for countries that use 240V AC mains, please use a 1.5A fuse or circuit breaker) is used.
- Read the installation instructions before connecting the GPI-232 to its power source.
- Follow electricity safety measures whenever connecting the GPI-232 to its power source.
- A voltage mismatch can cause equipment damage and may pose a fire hazard. If the voltage indicated on the label is different from the power supply voltage, do not connect the GPI-232 to this power supply.

FORTINET

QuickStart Guide

GPI-232 Gigabit PoE Injector

Model Number	GPI-232
Input Voltage	100-240V AC (50-60Hz)
Maximum Input Current	1 Ampere
Available Output Power (Max.)	30 Watts
Nominal Output Voltage	55V DC

FORTINET

January 11, 2013

00-000-167737-20130111

Introduction

The Fortinet GPI-232 Power over Ethernet (PoE) Injector offers a compact and cost-effective IEEE 802.3af compliant power solution for IP telephony, wireless access points, network cameras and other IP-based hardware installations. The unit provides pass through data rates of up to 1000Mbps (Gigabit Ethernet).

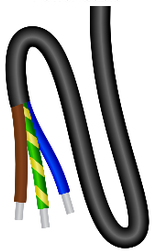
The GPI-232 converts AC voltage to 55V DC voltage, which is then provided to a device over an Ethernet cable.

The unit can be powered via any AC input, and provides up to 30W of power for your devices.

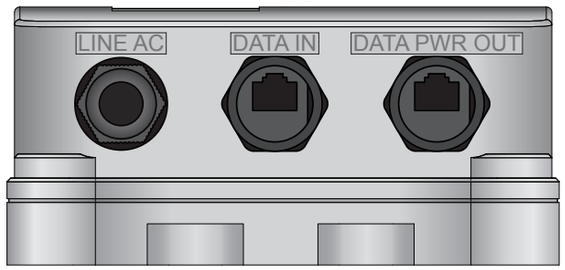
Package Contents

GPI-232 Gigabit PoE Injector
QuickStart Guide
Power Cable (pre-installed)
Ground Cable
2 Waterproof Ethernet Connector Assemblies

Power Cable

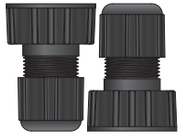


GPI-232

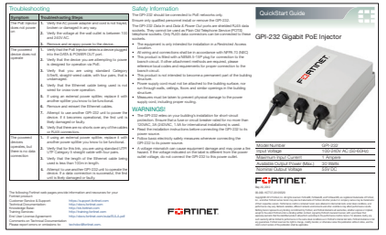


Ground Cable

2 Waterproof Ethernet Connector Assemblies



QuickStart Guide



Power cable color scheme:

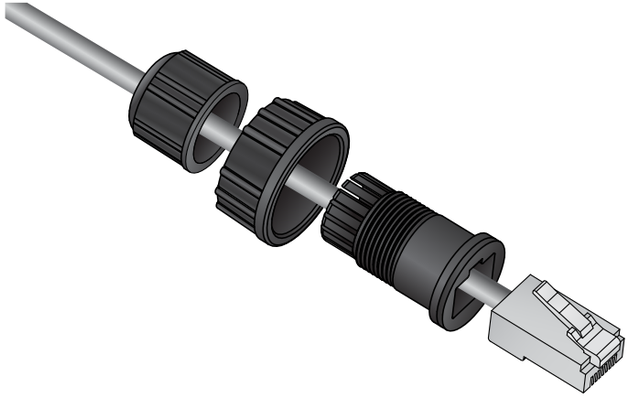
Color	Description
Blue	Neutral
Brown	Line
Green/Yellow	Earth ground

Installation

The GPI-232 can be placed on a desktop or mounted on a wall or bench (any flat surface, such as wood, brick, or concrete) using the mounting holes.

Note: Prior to mounting the GPI-232 to a fixed location:

- Ensure the length of the Ethernet cable from the GPI-232 to the powered device does not exceed 100m (330 ft.). The PoE Injector does not function as an Ethernet repeater and will not amplify the data signal.
- The GPI-232 AC power cable must be connected to a sealed box in order to meet EN60529 level IP66 and NEMA 250 level 4x.
- The socket-outlet must be installed near the device and be easily accessible.

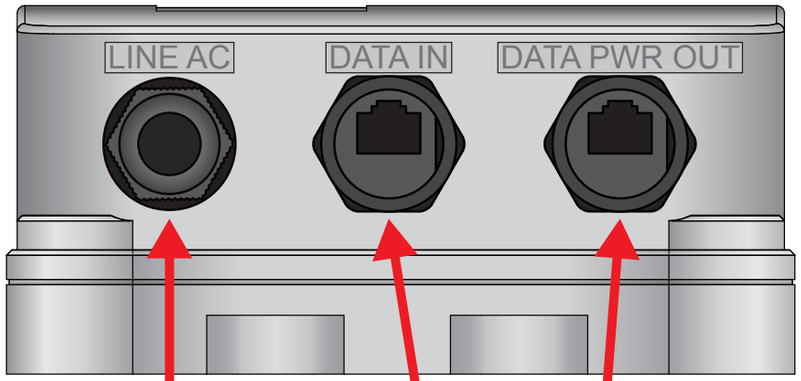


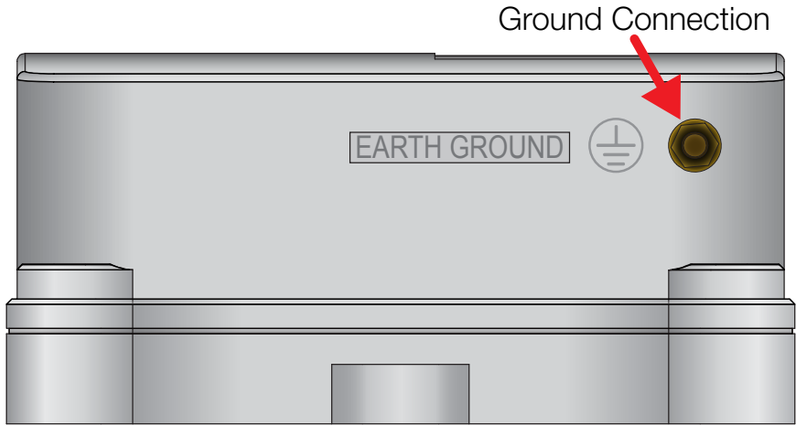
1. Assemble two Ethernet cables using the provided waterproof Ethernet connector assemblies, as shown above.
2. Connect the provided ground cable from the device to an appropriate earth ground.
3. Connect the GPI-232 to an AC power line (100-240V AC).
4. Connect an Ethernet cable from your router, switch or hub to the DATA IN port and hand tighten the waterproof connector.
5. Connect an Ethernet cable from the device you wish to power to the DATA & POWER OUT port and hand tighten the waterproof connector.

Caution: The installation of this device should be performed by qualified personnel.

Caution: Do not connect a cross-over Ethernet cable to this device. Doing so could cause dangerous overloads or short-circuits as well as physically damaging both the PoE Injector and your device.

Technical Specifications





Interface	Description
Data Input Interface	RJ45 port with 10/100/1000Mbps (Gigabit Ethernet)
Data Output Interface	RJ45 port with 10/100/1000Mbps (Gigabit Ethernet) and 55V DC on wire pairs 1-2, 3-6, 4-5, and 7-8
Power Cable	Pre-installed 3m (10ft) power cable